

Operating Manual and Parts List

MODEL GR100



Because quality work demands quality tools



WARNING

**READ THESE INSTRUCTIONS CAREFULLY BEFORE OPERATING
COMPRESSOR. IMPROPER USE CAN RESULT IN SERIOUS INJURY.**

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BUILDING PRODUCTS, INC.

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are Itochu Companies

Carrollton, Texas 75006 USA
www.primesourcebp.com

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WARNING

This manual contains important safety and operating instructions that must be followed. You must read and understand this manual before operating this compressor. Failure to follow all instructions can result in serious injury to operator and bystanders, or damage to compressor and attachments.

SAFETY INSTRUCTIONS

WEAR ANSI Z87.1 APPROVED EYE PROTECTION- Always wear approved eye protection equipment that provides both front and side eye protection when operating the compressor.

DO NOT EXCEED MAXIMUM RECOMMENDED OPERATING PRESSURE OF AIRPOWERED TOOLS OR OTHER EQUIPMENT BEING USED- Spray guns and other low to medium pressure equipment can burst, causing serious injury to user and bystanders. Read and follow all manufacturers' pressure recommendations before connecting tools, sprayers, or other equipment to compressor. Use extreme care when using the compressor with tires, inner tubes, and other inflatables, as excessive pressure or rapid inflation can cause these items to burst.

CONNECT COMPRESSOR POWER CORD ONLY TO A PROPERLY GROUNDED POWER OUTLET USING AN APPROVED 3-PRONG GROUNDED EXTENSION CORD- Using an improperly grounded outlet or extension cord can result in shock or electrocution. Electrical wiring, outlets, extension cords, and current protection devices such as fuses and circuit breakers must meet local electrical and safety codes, as well the requirements of the National Electrical Code. A ground -fault circuit interrupter (GFCI) device may be required for compressor use outdoors, in garages, and in damp locations.

USE EXTENSION CORD THAT IS PROPERLY SIZED- Using an undersize cord can result in overheating of cord and short-circuiting, resulting in fire and damage to property. Use a UL -listed extension cord rated to safely handle the power requirements of the compressor.

DO NOT OPERATE IF FLAMMABLE VAPORS ARE PRESENT- The electric motor and pressure switch may produce sparks, which can ignite flammable vapors and cause fire or explosion. Flammable vapors from gasoline, solvents, adhesives, and other chemicals may drift some distance from the source, or build up in low areas. Operate the compressor only in well-ventilated areas that are free of flammable vapors.

DO NOT OPERATE IN THE RAIN OR IN WET AREAS- Operating an electric compressor in wet conditions can result in severe shock or electrocution. Operate only in dry conditions, using a properly grounded power outlet that conforms to local and national electrical code requirements. An outlet with ground -fault circuit interrupter (GFCI) protection is recommended for use outdoors or in garages, and may be required by local electrical codes.

DO NOT TOUCH COMPRESSOR HEAD OR TUBING WHEN UNIT IS OPERATING- Normal compressor operation will cause tubing and other components to become extremely hot. Contact with hot parts can cause serious burns. Allow unit to cool before handling.

SAFETY INSTRUCTIONS

DO NOT DIRECT COMPRESSED AIR AT ANY BODY PARTS - Compressed air can force dirt and debris into eyes or skin, causing serious injury. Never place hands or body parts over a pressurized nozzle or fitting. Use care when connecting and disconnecting air hose to attachments, pneumatic tools, and other air-powered devices.

KEEP FLAMMABLE SPRAYS AWAY FROM SPARKS AND OTHER SOURCES OF IGNITION- Spraying flammable liquids such as oil-base paints, sealers, and finishes near sparks, open flame, and other sources of ignition such as pilot lights, appliances, water heaters, furnaces, etc. can result in explosion and fire. Turn off all pilot lights, and avoid using electrical appliances, heaters, torches, and other equipment that may produce sparks or flame. Keep compressor as far away from spraying area as possible by using an air hose of sufficient length to prevent spray mist from being ignited by electrical sparks from compressor operation.

DO NOT TAMPER WITH COMPRESSOR PRESSURE SWITCH SETTINGS - The pressure switch settings set at the factory provide the maximum safe operating pressure recommended for this compressor. Altering these settings can result in over-pressurization, risk of tank, hose, and pneumatic equipment failure, and serious injury to operator and bystanders.

USE AIR HOSE RATED FOR 150 PSI OR GREATER- Air hose must be rated to safely handle maximum compressor pressure. Air hose that does not meet minimum pressure requirements can rupture, releasing high pressure air. Replace a cracked or leaking air hose immediately to prevent serious injury from contact with high pressure air streams.

WARNING LABELS

Your unit includes several important Warning Labels that must be legible at all times.



Drain Tank Label



Main Warning Label



Not A Step Label

SPECIFICATIONS

DESCRIPTION	SPECIFICATION
MODEL	GR100
Horsepower	1 (Peak)
Tanks	1
Air Storage Capacity	1 Gallons
Maximum Air Pressure	150 PSI
Weight	23 Lbs.
Size (L X W X H)	14.6" X 14.2" X 13.4"
CFM	1 @ 40 PSi
	0.6 @ 90 PSI"
Pressure Switch- ON	105 PSI
Pressure Switch- OFF	135 PSI
Power Requirements	115 V 60 Hz. 5 Amps
Compressor Type	Oil-less, Piston

SET UP

Your new compressor is fully assembled and will be ready for use after a brief "break-in" procedure that will help your unit deliver years of trouble free service. This procedure should be followed before placing the unit in service for the first time, after replacing the check valve, or when the piston or cylinder has been replaced.

CAUTION: Failure to follow all break-in instructions may result in serious damage to your compressor.

Power Connection

Grounding

This compressor is equipped with a 3prong grounding plug that must be connected to a properly grounded outlet, or heavy duty extension cord of sufficient size to handle compressor current. A ground fault circuit interrupter may be required; check local codes for requirements.

Break-in Procedure

1. Set the On/Auto-Off lever to the "OFF" position.
2. Plug the power cord into the power receptacle.
3. Open the tank drain valve completely.
4. Move the pressure switch lever to "ON/AUTO" position. The compressor will start.
5. Allow the compressor to run continuously for 15 minutes. Make sure the drain valve remains open, and there is no pressure build-up inside the tank.
6. After 15 minutes, close the drain valve by turning the drain knob. The tank will pressurize, and the motor will stop automatically when full pressure is reached. The compressor is now ready for use.



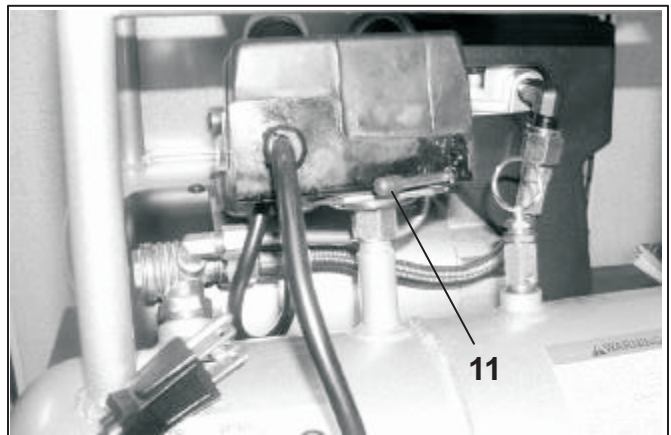
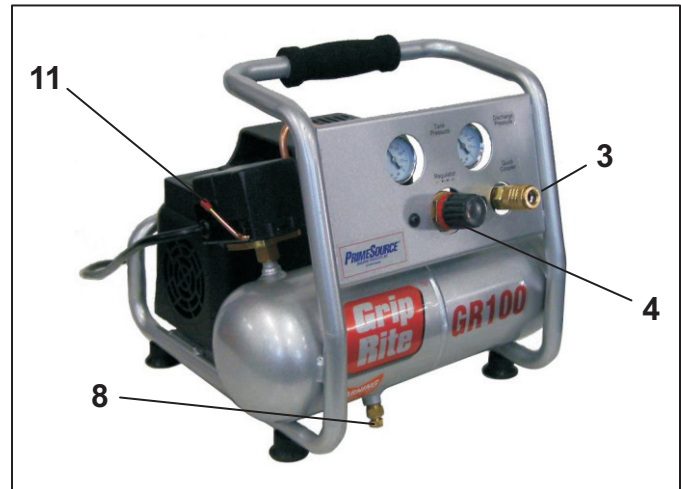
COMPRESSOR PARTS DESCRIPTION

KEY	DESCRIPTION	FUNCTION
1	Tank Pressure Gage	Indicates air pressure in air tank(s)
2	Air Outlet Pressure Gage	Indicates air pressure to air hose
3	Air Outlet Fitting	Allows quick connection of air hose
4	Regulator Control Knob	Adjusts hose pressure setting
5	Air Storage Tank	Stores air
6	Rubber Foot	Provides stable footing, reduces vibration
7	Compressor Frame	Supports compressor components
8	Air Tank Drain Fitting	Allows air and moisture to be drained
9	115v Ac Power Cord	Provides power to compressor motor
10	Pressure Switch	Controls compressor motor start/stop
11	Switch On-Off Lever	Turns compressor on or off
12	Safety Relief Valve	Releases excessive air pressure
13	Air Pressure Regulator	Controls air pressure
14	Cooling System	Cools compressor components
15	Circuit Breaker	Protects wiring from overloads
16	Handle	Use to lift and carry unit

OPERATION

Start Unit

1. Make sure On-Auto/Off switch lever (11) is set to "Off" and drain valve (8) on bottom of tank is closed securely.
2. Attach air hose to compressor quick-connect coupling (3).
3. Attach air-powered accessory to air hose. Use female quick-disconnect coupling on end of air hose.
4. Turn On-Auto/Off switch lever to "Auto", and allow compressor to pressurize tank.
5. Pressure switch will stop motor when tank pressure reaches pressure switch high pressure setting.
6. Adjust discharge air pressure setting by turning air pressure adjustment knob (4). Discharge pressure gage (2) indicates air pressure.
7. As air is used, tank pressure will gradually decrease until minimum tank pressure switch setting is reached. Pressure switch will start compressor motor, and pressurize air tanks until maximum air pressure setting is reached. Unit will continue to cycle automatically as long as On-Auto Off switch lever is set to "Auto."



OPERATION

8. When done, turn OnAuto/Off switch lever to Off, and unplug power cord from power receptacle.

NOTE: Do not unplug power cord while compressor is running. Always use On-Auto/Off switch to shut compressor off.

9. Disconnect air tool or accessory, and disconnect air hose from quick connect coupling.
10. Open tank drain valve slightly, and allow tank pressure to drain. Open drain valve completely ~~after~~ air pressure has been allowed to escape, and allow all moisture to drain from tanks. Tip tanks if necessary to allow tanks to drain completely.
11. Close tank drain valve, and tighten valve securely to prevent air leakage when compressor is started.
12. Place compressor in a clean, dry location, protected from the rain or other sources of excessive moisture.

MAINTENANCE

Lubrication

Your GripRite Compressor is oil-less and contains sealed bearings that are lubricated for the life of the compressor. No additional lubrication is required.

Maintenance Schedule

Daily Drain moisture from tanks daily. Open drain slowly and let air pressure bleed down gradually before opening drain valve completely. Use care when tipping compressor to drain tanks.

Weekly Clean exterior of compressor. Keep air intake vents clear.

Monthly Check safety relief valve operation. (Pull safety relief valve ring - valve must open and release air pressure in tank. Release valve ring - valve must seal tightly.)

Check warning labels for legibility, and replace if necessary. Contact your Grip-Rite dealer for replacement labels.

Check air filter element (Key 9, Parts Schematic) and clean or replace as required.

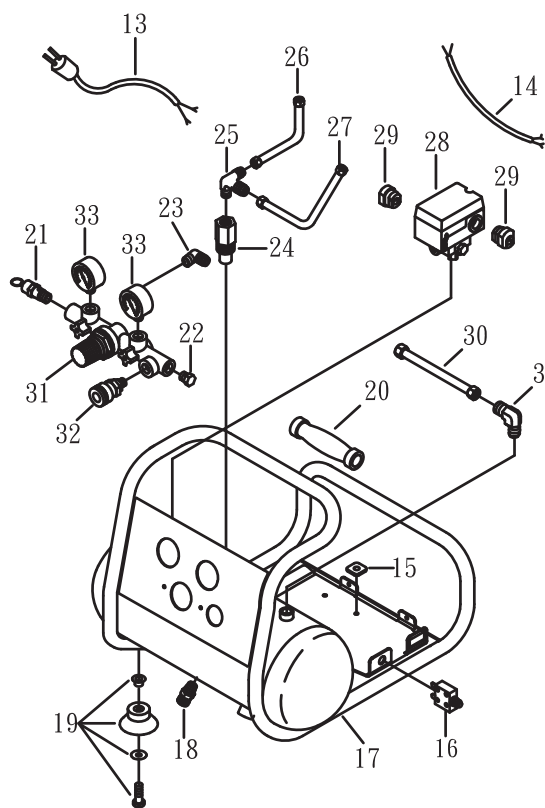
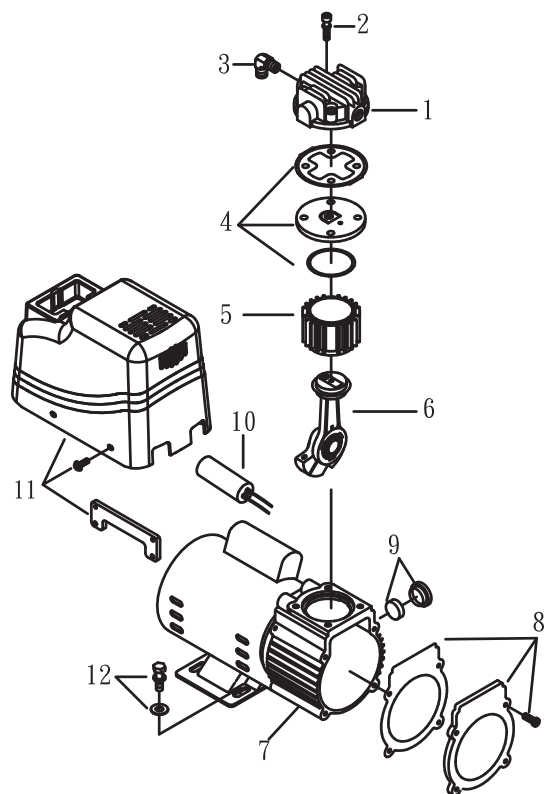
Check compressor power cord and plug for damage. Don't use compressor if cord is damaged. Contact your Grip-Rite dealer for service.

6 Months Check gages for correct readings.

Check fittings and connections for leaks and tighten as required.

Yearly Check tanks for cracks, corrosion, leaks, or other damage. Never use a compressor with a damaged tank.

COMPRESSOR SCHEMATICS



GR-100

COMPRESSOR PARTS LISTS

GR-100		
1	Cylinder Head	PACP449
2	Allen BoltSet	PACP450
3	Exhaust Elbow	PACP48
4	Exhaust Valve Seat	PACP451
5	Cylinder	PACP452
6	Rod Set	PACP453
7	Motor Set	PACP454
8	Front Cover	PACP455
9	Air Filter Set	PACP456
10	Running Capacitor	PACP457
11	Shroud	PACP458
12	Hexagon Bolt Set	PACP459
13	Power Cable	PACP386
14	Cable	PACP460
15	Gasking	PACP112
16	Circuit Breaker	PACP461
17	Air Tank	PACP462
18	Drain Valve	PACP35
19	Rubber Pad	PACP463
20	Grip	PACP464
21	Pressure Relief Valve	PACP465
22	Plug	PACP56
23	Exhaust Elbow	PACP466
24	Check Valve	PACP467
25	Unloading 3-Way Pipe	PACP334
26	Unloading Tube	PACP468

GR-100		
27	Unloading Tube	PACP469
28	Pressure Switch	PACP470
29	Strain Relief Bushing	PACP384
30	Unloading Tube	PACP233
31	Regulator	PACP388
32	Quick Coupler	PACP448
33	Pressure Gauge	PACP390

TROUBLESHOOTING

PROBLEM	CAUSE	REMEDY
Compressor won't start	Circuit breaker tripped	Reset breaker
	Power turned off.	Turn power on
	Defective cord or plug	Replace
Compressor doesn't shut off	Drain plug open	Close drain plug
	Safety relief valve stuck open	Replace
	Air fitting on hose stuck open	Repair or replace
Safety relief valve pops open	Pressure switch misadjusted	Adjust pressure switch
Tool, sprayer, or other accessory doesn't work properly.	Air pressure too low or too high	Adjust regulator
Unit runs continuously	Air usage greater than compressor capacity	Check CFM requirements of air tool or accessory being used

STORAGE

- § Open tank drain valve and allow all air pressure to escape.
- § Drain all moisture out of tanks, and close drain valves.
- § Disconnect air hose and wind hose carefully for storage
- § Inspect compressor for wear, damage, or missing parts, and repair as needed.
- § Store unit in a dry, cool place.
- § Storage in vehicles or trailers- secure the compressor to keep it from tipping or being damaged by contact with other equipment. Make sure gages and knobs are clear of other objects that could cause damage.
- § Do not stack or place heavy objects on top of compressor.

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PNEUMATIC TOOL/COMPRESSOR WARRANTY

Pneumatic nailers, staplers & compressors marketed under the **GRIP RITE[™]** brand are warranted to be free from defects in workmanship & materials (except rubber o-rings, bumpers, seals, driver blades, dipsticks, & air filters) for a period of one year from the date of original purchase.

This warranty will not apply when:

- The original receipt (or copy of the original receipt), showing the original purchase date, is not provided with tools/compressors sent in for warranty repair
- The tool/compressor has been misused, abused or improperly maintained
- Alterations have been made to the original tool/compressor
- Repairs have been attempted/made to the original tool/compressor by any entity other than a proprietary **PRIMESOURCE[®]** service/warranty center or authorized service/warranty center
- Non- **GRIP-RITE TOOLS[™]** / **GRIP-RITE COMPRESSORS[™]** parts have been used
- The tool has suffered any physical damage due to the use of non-**PRIMESOURCE[®]** approved fasteners*
- Repairs are required due to normal wear & tear
- The tool/compressor has been inadequately packaged leading to damage in-transit to the service/warranty center

*Approved fasteners include the following brands **GRIP-RITE FAS'NERS[™]**, **FAS'NERS UNLIMITED[™]**

IN NO EVENT SHALL **PRIMESOURCE[®]** BE LIABLE FOR ANY INDIRECT, ACCIDENTAL OR CONSEQUENTIAL DAMAGE FROM THE SALE OR USE OF THESE PRODUCTS. THIS DISCLAIMER APPLIES BOTH DURING & AFTER THE TERM OF WARRANTY.

THIS IS OUR WARRANTY & IS EXPRESSLY IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING THE WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE (EXCEPT AS MAY BE OTHERWISE PROVIDED BY LAW).

This limited warranty gives you specific legal rights, and you may also have other rights, which vary, from state to state.

PNEUMATIC TOOL/COMPRESSOR SERVICE INFORMATION

Should any mechanical problems develop during the life of your equipment the following options are available for service and parts:

- Call (800)676-7777 where you will be routed to the nearest **PRIMESOURCE[®]** distribution center and directed to the nearest authorized service/warranty center
- Log on to our website at **www.primesourcebp.com** where you will find a list of our authorized service centers
- Contact the **PRIMESOURCE[®]** Factory Warranty Center directly at Phone: (800)207-9259 or Fax: (800)207-9614

STEPS TO TAKE WHEN SHIPPING TOOLS

- Adequately package the product to avoid damage in-transit (in the case of pneumatic tools, the original blow mold plastic carrying case is considered adequate packaging)
- Provide the original/copy of receipt showing the original purchase date
- Insure your shipment with the shipping company. **PRIMESOURCE[®]** will not be responsible for any tool/compressor that is lost or damaged by the shipper on route to the **PRIMESOURCE[®]** service/warranty center